

CLAIMS

[1] A program execution device that downloads and executes a program, said device comprising:

5 a storage unit having an area for storing the downloaded program;

a storage judgment unit operable to judge whether or not it is possible for each of plural programs, including a program to be downloaded, to be held in said storage unit, based on a priority
10 assigned to each of the programs;

a notification unit operable to notify a user of a message regarding treatment of the program judged by said storage judgment unit as being impossible to be held;

a storage processing unit operable to store, in said storage
15 unit, the program to be downloaded which has been judged by said storage judgment unit as being possible to be held; and

an execution unit operable to execute the program stored in said storage unit.

20 [2] The program execution device according to Claim 1, further comprising

a capacity acquisition unit operable to acquire a storage capacity required for storing each of the plural programs and an available space in said storage unit,

25 wherein said storage judgment unit is operable to judge, based on the storage capacity and the available space acquired by said space acquisition unit, that a program with a high priority can be preferentially stored, as long as the storage space of one program or all of the plural programs to be stored does not exceed
30 a capacity in said storage unit.

[3] The program execution device according to Claim 2, further

comprising

a deletion unit operable to delete a program stored in said storage unit, the program having been judged by said storage judgment unit as being impossible to be held,

5 wherein said notification unit is operable to notify the user of a message regarding the deletion of the program, and

said storage processing unit is operable to store, in the storage unit from which the program has been deleted, the program to be downloaded that has been judged by said storage judgment
10 unit as being possible to be held.

[4] The program execution device according to Claim 3,

wherein said deletion unit is operable to delete the program stored in said storage unit after detecting that the user has been
15 notified by said notification unit.

[5] The program execution device according to Claim 4,

wherein said notification unit is operable to notify the user of a message requesting the user to confirm the deletion of the
20 program stored in said storage unit, and

said program execution device further comprises

a confirmation acquisition unit operable to acquire a result of a confirmation which the user has made in response to the message,

wherein said deletion unit is operable to delete the program
25 stored in said storage unit upon detecting that said confirmation acquisition unit has acquired the result of the confirmation.

[6] The program execution device according to Claim 4,

wherein said notification unit is operable to notify the user of a message inquiring whether or not it is acceptable to delete the
30 program stored in said storage unit, and

said program execution device further comprises

an answer acquisition unit operable to acquire a result of an answer which the user has made in response to the message,

wherein said deletion unit is operable to delete the program stored in said storage unit upon detecting that the result of the answer acquired by said answer acquisition unit indicates that deletion has been allowed.

[7] The program execution device according to Claim 6, further comprising

a priority change unit operable to raise the priority of the program stored in said storage unit, the program having been judged by said storage judgment unit as being impossible to be held, upon detecting that the result of the answer acquired by said answer acquisition unit indicates that deletion has been rejected,

wherein said storage judgment unit is operable to judge, again, whether or not it is possible to hold each of the programs in said storage unit, based on the priority changed by said priority change unit.

[8] The program execution device according to Claim 4,

wherein said storage judgment unit is further operable to judge whether or not the plural programs judged as being impossible to be held are stored in said storage unit;

said notification unit is operable to notify the user of a message prompting selection of which program, from among the plural programs judged to be stored by said storage judgment unit, to delete; and

said program execution device further comprises

a selection result acquisition unit operable to acquire a result of the selection made by the user in response to the message,

wherein said deletion unit is operable to delete the program indicated by the result of the selection acquired by said selection

result acquisition unit.

[9] The program execution device according to Claim 4,
wherein said notification unit is operable to display the
5 message to the user by using the program stored in said storage
unit.

[10] The program execution device according to Claim 3, further
comprising

10 an execution judgment unit operable to judge whether or not
the program, which has been judged by said storage judgment unit
as being impossible to be held, is being executed by said execution
unit;

wherein said notification unit is operable to notify the user of
15 a message regarding deletion of the program judged by said
execution judgment unit as being executed.

[11] The program execution device according to Claim 10,
wherein said deletion unit is operable to terminate execution
20 of the program judged by said execution judgment unit as being
executed, and to delete the program.

[12] The program execution device according to Claim 11,
wherein said notification unit is operable to notify the user of
25 a message inquiring whether or not it is acceptable to delete the
program judged by said execution judgment unit as being executed,
and

said program execution device further comprises
an answer acquisition unit operable to acquire a result of an
30 answer which the user has made in response to the message, and
said deletion unit is operable to terminate and delete the
program being executed, upon detecting that the result of the

answer acquired by said answer acquisition unit indicates that deletion has been allowed.

[13] The program execution device according to Claim 10,
5 wherein upon detecting that the program being executed has been terminated based on a result of the judgment carried out by said execution judgment unit, said deletion unit is operable to delete the program.

10 [14] The program execution device according to Claim 2,
wherein said notification unit is operable to notify the user of a message regarding storage of the program to be downloaded that has been judged by said storage judgment unit as being impossible to be held.

15 [15] The program execution device according to Claim 14,
wherein said storage judgment unit is further operable to judge whether or not the plural programs judged as being impossible to be held are stored in said storage unit;

20 said notification unit is operable to notify the user of a message prompting selection of which program to store, from among the plural programs judged not to be stored by said storage judgment unit; and

said program execution device further comprises
25 a selection result acquisition unit operable to acquire a result of the selection made by the user in response to the message,
wherein said deletion unit is operable to store the program indicated in the result of the selection acquired by said selection result acquisition unit.

30 [16] The program execution device according to Claim 2,
wherein said storage judgment unit is operable to judge

whether or not to store, in said storage unit, each of plural programs that are of types differing from one another.

[17] A program execution method for downloading and executing a
5 program, said method comprising:

a storage judgment step of judging whether or not it is possible for each of plural programs, including a program to be downloaded, to be held in a storage unit, based on a priority assigned to each of the programs;

10 a notification step of notifying a user of a message regarding treatment of the program judged in said storage judgment step as being impossible to be held;

a storage processing step of storing, in said storage unit, the program to be downloaded which has been judged in said storage
15 judgment step as being possible to be held; and

an execution step of executing the program stored in said storage unit.

[18] A program for downloading an application program and
20 causing a computer to execute the application program, said program comprising:

a storage judgment step of judging whether or not it is possible for each of plural application programs, including an application program to be downloaded, to be held in a storage unit,
25 based on a priority assigned to each of the application programs;

a notification step of notifying a user of a message regarding treatment of the application program judged in said storage judgment step as being impossible to be held;

a storage processing step of storing, in said storage unit, the
30 application program to be downloaded which has been judged in said storage judgment step as being possible to be held; and

an execution step of executing the application program stored

in said storage unit.